

1/2

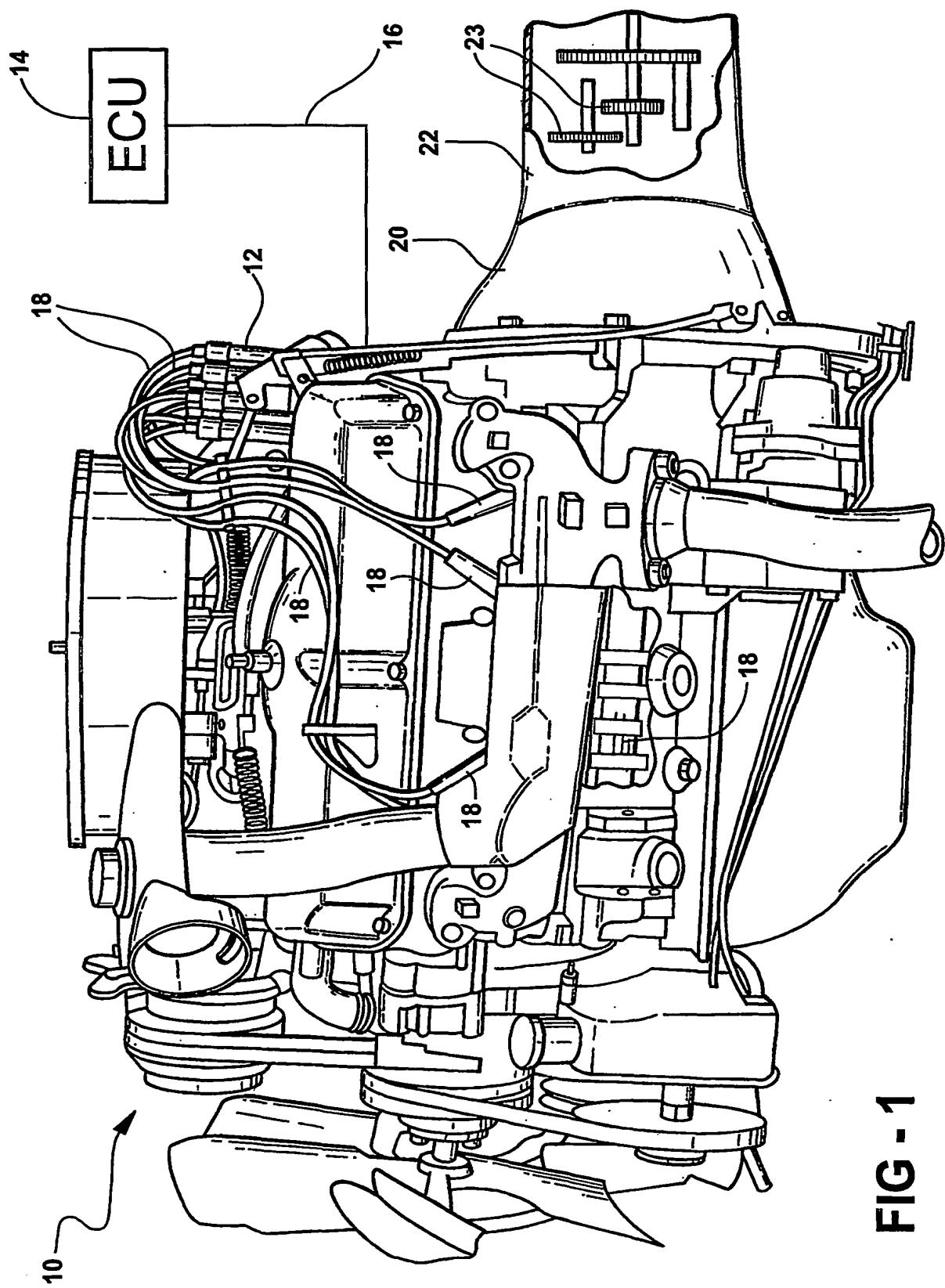


FIG - 1

2/2

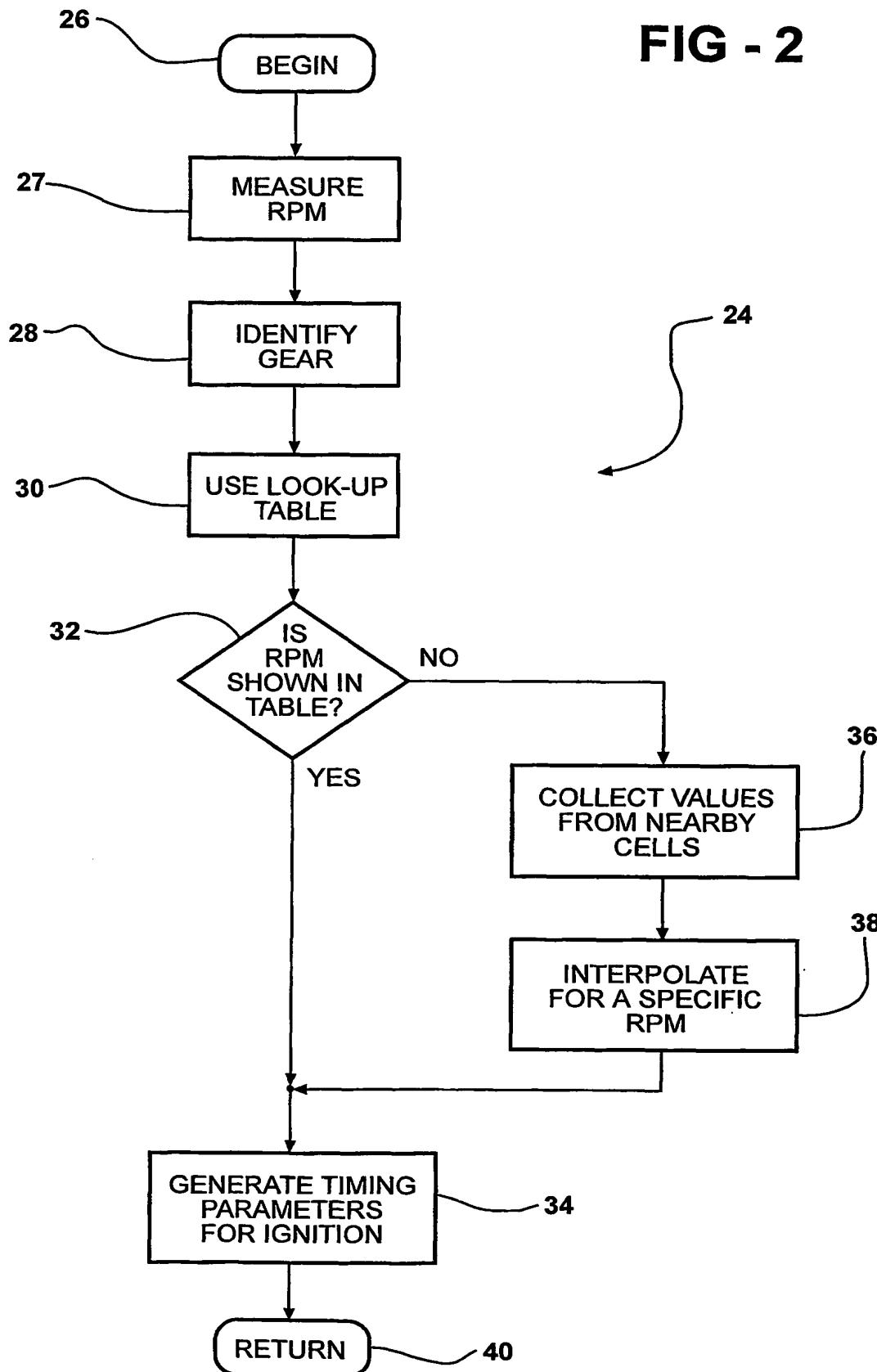


FIG - 2

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/07582

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B60K 41/04; F02P 5/06
 US CL : 477/101, 107, 111, 123/406.2, 406.25

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 477/101, 107, 111; 123/406.2, 406.25

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,887,568 A (TAKEYAMA et al.) 30 March 1999 (30.03.1999), Col. 2, lines 46-55, Fig. 1.	1-11
A	US 5,161,503 A (YANO et al.) 10 November 1992 (10.11.1992), Col. 2, lines 22-46, Fig. 2.	1-11
A	US 4,924,832 A (ABE) 15 May 1990 (15.05.1990), Col. 2, line 65 to Col. 3, line 37, Figs. 1-2.	1-11
A	US 4,895,120 A (TOBINAGA et al.) 23 January 1990 (23.01.1990), Col. 2, lines 21-42, Fig. 3.	1-11
A	US 4,852,537 A (NAGANO et al.) 01 August 1989 (01.08.1989), Col. 1, line 50 to Col. 2, line 3, Fig. 5.	1-11

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"A" document defining the general state of the art which is not considered to be of particular relevance

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"E" earlier application or patent published on or after the international filing date

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"&"

document member of the same patent family

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

Date of mailing of the international search report

02 JUL 2001

Name and mailing address of the ISA/US

Authorized officer

Commissioner of Patents and Trademarks
Box PCTHa Ho Diane Smith for
Telephone No. (703) 305-0738

Washington, D.C. 20231

Facsimile No. (703)305-3230

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/07582

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)**NEW ABSTRACT**

A method for controlling the ignition of an internal combustion engine (10) for a motor vehicle. More specifically, the method controls the timing of ignition for each of cylinder of the internal combustion engine (10). Control of the timing is based on two parameters, i.e., the speed at which the internal combustion engine (10) is operating and the gear in which the transmission (22) is operating. The speed is measured in terms of revolutions per minute. The gear helps to gauge what type of load may be present on the internal combustion engine (10). By identifying each of these parameters, it may easily be determined at what value the timing may be. If the specific speed of the vehicle is not located within the look-up table, where the data is stored, the method will interpolate the timing value based on values close to the value of the speed of the internal combustion engine (10) based on the neighboring values thereof.